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Term:	l1 and cDNA	according to the control of the cont								
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	US Pre-Grant Publication Full-Text Database									

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$\underline{L4}$ L3 and single stand binding protein	0	<u>L4</u>		
<u>L3</u> 11 and cDNA	1	<u>L3</u>		
<u>L2</u> 11 and (taq polymerase or reverse transcriptase	9) 0	<u>L2</u>		
<u>L1</u> 5593834.pn.	2	<u>L1</u>		

END OF SEARCH HISTORY

Freeform Search

Database:	US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins									
Term:	L9 and single strand binding protein									
Display:	10 Documents in Display Format: - Starting with Number	21								
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DATE: Wednesday, April 21, 2004 Printable Copy Create Case

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DB=U	SPT,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ		
<u>L10</u>	L9 and single strand binding protein	1	<u>L10</u>
<u>L9</u>	baugh.in.	755	<u>L9</u>
<u>L8</u>	L7 and single strand binding protein	1	<u>L8</u>
<u>L7</u>	hunter.in.	7024	<u>L7</u>
<u>L6</u>	L5 and cDNA	24	<u>L6</u>
<u>L5</u>	L4 and reverse transcri\$7	24	<u>L5</u>
<u>L4</u>	taq polymerase and single strand binding protein	38	<u>L4</u>
<u>L3</u>	taq polymerase and T4GP32	0	<u>L3</u>
<u>L2</u>	taq polymerase same single strand binding protein	0	<u>L2</u>
<u>L1</u>	taq polymerase same single-strand binding protein same reverse transcri\$7	0	<u>L1</u>

END OF SEARCH HISTORY

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=> s tag polymerase# (P) (single strand binding protein# or RecA) 1 TAG POLYMERASE# (P) (SINGLE STRAND BINDING PROTEIN# OR RECA)

=> s l1 and reverse transcriptase# 0 L1 AND REVERSE TRANSCRIPTASE#

=> s l1 and CENA

0 L1 AND CENA

=> s l1 and cDNA

0 L1 AND CDNA

=> d l1 bib ab kwic

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1995:446729 CAPLUS

DN122:180284

TIImprovement of nucleic acid reactions involving cycling between singleand double-stranded nucleic acids with single- and double-stranded binding

IN Lane, Michael J.; Benight, Albert S.; Faldasz, Brian D.

PA Research Foundation of State University of New York, USA

SO PCT Int. Appl., 76 pp. CODEN: PIXXD2

DTPatent

LA English

FAN.CNT 3

| | PATENT NO. | | | | | KIND DATE | | | | APPLICATION NO. | | | | | DATE | | | | |
|------|-----------------------------|---------|-----|-----|----------------------------|-----------|----------|------|----------------|-----------------|---------|-------|-------|----------|-------|------|-----|-----|----|
| | | | | | | | | | - | - | | | | | | | | | |
| ΡI | WO | 9500666 | | | A1 19950105 | | | | WO 1994-US6800 | | | | | 19940616 | | | | | |
| | | W : | AΤ, | AU, | BB, | ВG, | BR, | BY, | CA, | CH, | CN, | CZ, | DE, | DK, | ES, | FΙ, | GB, | GE, | |
| | | | HU, | JP, | KΕ, | ΚG, | KΡ, | KR, | KΖ, | LK, | LU, | LV, | MD, | MG, | MN, | MW, | NL, | NO, | |
| | | | NZ, | PL, | PT, | RO, | RU, | SD, | SE, | SI, | SK, | ТJ, | TT, | UA, | UΖ, | VN | | | |
| | | RW: | ΑT, | ΒE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | ΙE, | IT, | LU, | MC, | NL, | PT, | SE, | |
| | | | BF, | ВJ, | CF, | CG, | CI, | CM, | GΑ, | GN, | ML, | MR, | NE, | SN, | TD, | TG | | | |
| | CA | 2165544 | | | AA 19950105 | | | | C | A 19 | 94-2 | 16554 | 44 | 1994 | 0616 | | | | |
| | ΑU | | | | A1 19950117
A1 19960501 | | | | Αl | J 19: | 94-72 | 2083 | | 1994 | 0616 | | | | |
| | EΡ | | | | | | | 0501 | E | P 19 | 94 - 92 | 2130 | 8 | 1994 | 0616 | | | | |
| | | R: | ΑT, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | ΙE, | ΙΤ, | LI, | LU, | MC, | NL, | PT, | SE |
| | US | 5593 | 834 | | Α | | | | | US | 5 19: | 95-42 | 27863 | 3 | 19950 | 0426 | - | _ | |
| | US | 6027 | 884 | | Α | | 20000222 | | | US | 3 19: | 96-76 | 5341 | 7 | 1996 | 1211 | | | |
| PRAI | PRAI US 1993-78 7 59 | | | | | 1993 | 0617 | | | | | | | | | | | | |

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US 1993-153535
                            19931117
     US 1994-224840
                            19940408
     US 1994-260200
                            19940616
     WO 1994-US6800
                            19940616
     The title improvement comprises providing for thermodn. rather than
     thermal cycling and thereby allowing the reaction to proceed under
     isothermal conditions. The thermodn. cycling is provided for by including
     in the reaction a balanced mixture of single-strand and duplex nucleic acid
     binding ligands to insure that the reaction (formation of duplex from
     single-stranded nucleic acid) proceeds in both directions at rates which
     allow the production of a significant level of a desired product. Inclusion
     of an appropriate level of single-strand binding ligand can also result in
     more selective hybridization and thus allow greater selectivity in
     hybridization-based reactions. The concept was applied to PCR and allowed
     isothermal PCR to be demonstrated. Tag polymerase and
     single-strand binding protein were
     used as the double-stranded and single-stranded DNA binding proteins,
     The title improvement comprises providing for thermodn. rather than
     thermal cycling and thereby allowing the reaction to proceed under
     isothermal conditions. The thermodn. cycling is provided for by including
     in the reaction a balanced mixture of single-strand and duplex nucleic acid
     binding ligands to insure that the reaction (formation of duplex from
     single-stranded nucleic acid) proceeds in both directions at rates which
     allow the production of a significant level of a desired product. Inclusion
     of an appropriate level of single-strand binding ligand can also result in
     more selective hybridization and thus allow greater selectivity in
     hybridization-based reactions. The concept was applied to PCR and allowed
     isothermal PCR to be demonstrated.
                                        Tag polymerase and
     single-strand binding protein were
     used as the double-stranded and single-stranded DNA binding proteins,
     resp.
=> s transcriptase(P)(single strand binding protein or RecA)
            43 TRANSCRIPTASE (P) (SINGLE STRAND BINDING PROTEIN OR RECA)
=> s 15 and (produc### or mak### or synthesiz###)(10a)cDNA
             0 L5 AND (PRODUC### OR MAK### OR SYNTHESIZ###)(10A) CDNA
=> s 15 and (amplif##### (10a)cDNA
UNMATCHED LEFT PARENTHESIS 'AND (AMPLIF####'
The number of right parentheses in a query must be equal to the
number of left parentheses.
=> s 15 and (amplif######(10a)cDNA)
             0 L5 AND (AMPLIF#######(10A) CDNA)
=> s 15 and cDNA
             3 L5 AND CDNA
=> dup rem 18
PROCESSING COMPLETED FOR L8
              3 DUP REM L8 (0 DUPLICATES REMOVED)
=> d 19 1-3 bib ab kwic
    ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
    2003:971610 CAPLUS
    140:24132
    DNA polymerase mutants with increased reverse transcriptase activity
    Arezi, Bahram; Hogrefe, Holly; Sorge, Joseph A.; Hansen, Connie Jo
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U.S. Pat. Appl. Publ., 51 pp., Cont.-in-part of U.S. Ser. No. 223,650.

AB

AΒ

1.7

L9

AN

DN

TIIN

PA

SO

Stratagene, USA

CODEN: USXXCO DT Patent LAEnglish FAN.CNT 5 APPLICATION NO. DATE KIND DATE PATENT NO. ---- --------------______ PΙ US 2003228616 A1 20031211 US 2003-435766 20030512 WO 2001032887 WO 2000-US29706 20001027 A120010510 W: AU, CA, JP RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE US 2003157483 **A1** 20030821 US 2001-896923 20010629 US 2004009486 A1 20040115 US 2002-223650 20020819 PRAI US 1999-162600P P 19991029 A2 US 2000-698341 20001027 WO 2000-US29706 A 20001027 US 2002-223650 A2 20010629 20020819 The invention relates to the discovery of thermostable DNA polymerases, AB e.g., Archaeal DNA polymerases, that bear one or more mutations resulting in increased reverse transcriptase activity relative to their unmodified wild-type forms. Wildtype (exo+) JDF-3 DNA polymerase and JDF-3 DNA polymerase substantially lacking 3'-5' exonuclease activity (exo) were prepared Point mutations phenylalanine (F), tyrosine (Y), and tryptophan (W) were introduced at leucine (L) 409 of exo- and exo+Pfu and at L408 of exo- and exo+JDF-3 DNA polymerases using the Quikchange site directed mutagenesis kit (Stratagene). Partially purified prepns. of the exo- and exo+ JDF-3 L408F and L408Y and Pfu L409F and L409Y showed improved RT activity compared to wild type JDF-3 and Pfu. Purified prepns. of the exo-JDF-3 L408H and L408F showed improved RT activity compared to wild type JDF-3 and Pfu. The results demonstrate that adding DMSO significantly improves the reverse transcriptase activity of exo+ Pfu L409Y. TT Protein sequences cDNA sequences (DNA polymerase mutants with increased reverse transcriptase activity) TΤ Enzymes, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (RecA, fusion products with DNA polymerases; DNA polymerase mutants with increased reverse transcriptage activity) T.9 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN ΔN 2000:666860 CAPLUS DN 133:262243 TIImproving processivity of DNA- or RNA-dependent polymerases with nucleic acid-binding proteins and application to improved cDNA cloning IN Pelletier, Jerry PA McGill University, Can. PCT Int. Appl., 43 pp. SO CODEN: PIXXD2 DT Patent LA English FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE _______ -----WO 2000055307 A2 20000921 WO 2000-CA261 20000310 W: CA, JP, US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE EP 1165760 A2 20020102 EP 2000-908881 20000310 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI US 2002119467

A1 20020829

US 2001-954512

20010912

PRAI US 1999-124011P P 19990312 WO 2000-CA261 W 20000310

- The present invention relates to genetic engineering, and especially to cDNA synthesis and cDNA cloning. More specifically, a method is presented for increasing the processivity of a DNA- or RNA-dependent RNA- or DNA-polymerase comprising an addition of a general nucleic acid binding protein. In particular, the present invention relates to methods for increasing the processivity of reverse transcriptase (RT) E. coli DNA polymerase and T7 DNA polymerase using a nucleic acid binding protein such as Ncp7, recA, SSB and T4gp32. The invention further relates to assays to identify and select agents capable of increasing the processivity of a DNA or RNA-dependent polymerase, such as MMTV RT, AMV RT, T7 DNA polymerase and E. coli DNA polymerase. In a particularly preferred embodiment, the invention relates to a method for increasing the generation of full-length cDNA clones using a nucleic acid binding protein such as Ncp7, recA, SSB and T4gp32.
- TI Improving processivity of DNA- or RNA-dependent polymerases with nucleic acid-binding proteins and application to improved cDNA cloning
- The present invention relates to genetic engineering, and especially to AB cDNA synthesis and cDNA cloning. More specifically, a method is presented for increasing the processivity of a DNA- or RNA-dependent RNA- or DNA-polymerase comprising an addition of a general nucleic acid binding protein. In particular, the present invention relates to methods for increasing the processivity of reverse transcriptase (RT) E. coli DNA polymerase and T7 DNA polymerase using a nucleic acid binding protein such as Ncp7, recA, SSB and T4gp32. The invention further relates to assays to identify and select agents capable of increasing the processivity of a DNA or RNA-dependent polymerase, such as MMTV RT, AMV RT, T7 DNA polymerase and E. coli DNA polymerase. In a particularly preferred embodiment, the invention relates to a method for increasing the generation of full-length cDNA clones using a nucleic acid binding protein such as Ncp7, recA, SSB and T4qp32.
- ST reverse transcriptase processivity RNA binding protein; DNA polymerase processivity DNA binding protein; cDNA cloning polymerase nucleic acid binding protein
- IT Proteins, specific or class

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(DNA-binding; improving processivity of DNA- or RNA-dependent polymerases with nucleic acid-binding proteins and application to improved cDNA cloning)

IT Proteins, specific or class

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(NC(p7) (nucleocapsid, p7), of HIV; improving processivity of DNA- or RNA-dependent polymerases with nucleic acid-binding proteins and application to improved cDNA cloning)

IT Proteins, specific or class

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(RNA-binding; improving processivity of DNA- or RNA-dependent polymerases with nucleic acid-binding proteins and application to improved cDNA cloning)

IT Proteins, specific or class

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(SSB (single-stranded DNA-binding); improving processivity of DNA- or RNA-dependent polymerases with nucleic acid-binding proteins and application to improved cDNA cloning)

IT Proteins, specific or class

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(gene 32; improving processivity of DNA- or RNA-dependent polymerases with nucleic acid-binding proteins and application to improved cDNA cloning)

IT Enzymes, biological studies

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(gene recA; improving processivity of DNA- or RNA-dependent polymerases with nucleic acid-binding proteins and application to improved cDNA cloning)

IT cDNA

RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

(improving processivity of DNA- or RNA-dependent polymerases with nucleic acid-binding proteins and application to improved cDNA cloning)

IT Proteins, specific or class

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(nucleocapsid, retroviral; improving processivity of DNA- or RNA-dependent polymerases with nucleic acid-binding proteins and application to improved cDNA cloning)

IT 9068-38-6, RNA-dependent DNA polymerase

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(of MMLV or AMV; improving processivity of DNA- or RNA-dependent polymerases with nucleic acid-binding proteins and application to improved cDNA cloning)

IT 9012-90-2, DNA-dependent DNA polymerase

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(of T7 or E. coli; improving processivity of DNA- or RNA-dependent polymerases with nucleic acid-binding proteins and application to improved cDNA cloning)

IT 296363-37-6 296363-38-7 296363-39-8

RL: PRP (Properties)

(unclaimed sequence; improving processivity of DNA- or RNA-dependent polymerases with nucleic acid-binding proteins and application to improved cDNA cloning)

- L9 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 2000:897365 CAPLUS
- DN 135:72094
- TI RecA-independent ectopic transposition in vivo of a bacterial group II intron
- AU Martinez-Abarca, Francisco; Toro, Nicolas
- CS Grupo de Ecologia Genetica, Estacion Experimental del Zaidin, Consejo Superior de Investigaciones Cientificas, Granada, 18008, Spain
- SO Nucleic Acids Research (2000), 28(21), 4397-4402 CODEN: NARHAD; ISSN: 0305-1048
- PB Oxford University Press
- DT Journal
- LA English
- AB RmInt1 is a group II intron of Sinorhizobium meliloti which was initially found within the insertion sequence ISRm2011-2. Although the RmInt1 intron-encoded protein lacks a recognizable endonuclease domain, it is able to mediate insertion of RmInt1 at an Intron-specific location in intronless ISRm2011-2 recipient DNA, a phenomenon termed homing. Here we have characterized three addnl. insertion sites of RmInt1 in the genome of S. meliloti. Wo of these sites are within IS elements closely related to ISRm2011-2, which appear to form a characteristic group within the IS630-Tc1 family. The third site is in the oxil gene, which encodes a putative oxide reductase. The newly identified integration sites contain

conserved intron-binding site (IBS1 and IB2S) and δ' sequences (14 bp). The RNA of the intron-containing oxil gene is able to splice and the oxil site is a DNA target for RmIntl transposition in vivo. Ectopic transposition of RmIntl into the oxil gene occurs at 20-fold lower efficiency than into the homing site (ISRm2011-2) and is independent of the major RecA recombination pathway. The possibility that transposition of RmIntl to the oxil site occurs by reverse splicing into DNA is discussed.

- RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- ST Sinorhizobium group II intron transposition; sequence Sinorhizobium intron reverse transcriptase transposase gene oxi1 cDNA
- IT cDNA sequences

(for Sinorhizobium meliloti group II intron reverse transcriptase gene)

9068-38-6, Reverse transcriptase

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(gene for; RecA-independent ectopic transposition in vivo of a bacterial group II intron)

IT